

What is claimed is:

1. A mole detector, comprising:
apparatus for placement over a portion of a
5 soil surface overlaying a portion of a mole tunnel,
including a sensor and circuitry for detecting movement
of the portion of the soil surface indicative of passage
of a mole through the underlying tunnel portion and
generating a signal representative thereof.
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2. The mole detector of claim 1, wherein the
apparatus comprises a concave shell having elongate
lower edge portions and an upwardly extending semi-
cylindrical inner surface extending between the lower
15 edge portions defining a space, the lower edge portions
being positionable on the soil surface adjacent opposite
sides of the portion of the soil surface overlaying the
mole tunnel, respectively, such that the portion of the
soil surface overlaying the mole tunnel is located in
20 the space.
3. The mole detector of claim 2, wherein the
shell includes a cavity in an upper portion of the inner
cylindrical surface connecting with the space, and the
25 sensor is located in the cavity so as to project
downwardly into the space in a position over the portion
of the soil so as to be contacted by upward movement
thereof.
- 30 4. The mole detector of claim 3, wherein the
sensor includes an actuator disposed in the space and
movable by contact with the upwardly moving soil to
actuate a signal generator for emitting a signal
indicative of the movement.
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5. The mole detector of claim 1, wherein the sensor includes an actuator which operates a transmitter to emit a signal when movement of the portion of soil is detected, and the mole detector additionally includes a receiver separate from the transmitter operable for receiving the signal and responsively emitting a second signal.

6. The mole detector of claim 5, wherein the actuator comprises a magnetic proximity switch.

7. The mole detector of claim 5, wherein the actuator includes a movable member that projects downwardly into the space and at least one element allowing adjusting a position of the movable member in the space.

8. A mole detector, comprising:
a concave shell including spaced apart lower edges extending between opposite open ends, the lower edges being positionable on a soil surface on opposite sides of soil above a mole tunnel such that the concave shell overlays the soil above the tunnel;
a sensor operable for detecting movement of the soil underlaying the shell indicative of movement through or presence of a mole in the tunnel below and changing a state;
a transmitter operable when the state is changed for transmitting a signal representative thereof; and
a receiver operable for receiving the transmitted signal and outputting a signal indicative thereof.

9. The mole detector of claim 8, wherein the space between the lower edges of the concave shell has a horizontal extent between the lower edges which is at least about 3 inches.

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10. The mole detector of claim 8, wherein the sensor includes an actuator which extends into the space between and just above the lower edges in a position to be contacted by upward movement of soil located between the upper edges.

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11. The mole detector of claim 8, wherein the sensor comprises a magnetic proximity switch.

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12. The mole detector of claim 8 wherein the transmitter is operable when the state is changed for transmitting the signal representative thereof over the atmosphere to the receiver.

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13. An animal detector, comprising:
a concave shell including spaced apart lower edges extending between opposite open ends, the lower edges being positionable on a soil surface on opposite sides of soil above a tunnel such that the concave shell overlays the soil above the tunnel;

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a detector operable for detecting movement of the soil underlaying the shell indicative of movement through or presence of an animal in the tunnel below and changing a state;

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a transmitter operable when the state is changed for transmitting a signal representative thereof; and

a receiver operable for receiving the transmitted signal and outputting a signal indicative thereof.

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14. The animal detector of claim 13 wherein the change of state comprises operation of a switch.

5 15. The animal detector of claim 14, wherein the switch is a magnetic proximity switch operable by movement of an actuator of the detector in proximity thereto as a result of movement of the underlying soil.

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